

Access Free Field Epidemiology

Field Epidemiology

The new edition of this popular textbook remains a clear and practical introduction to epidemiology for students in all areas of health. By emphasising

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the role of epidemiology across a broad range of health monitoring and research, it gives students an understanding of the fundamental principles common to all areas of epidemiology. It

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also integrates the study of infectious and chronic diseases as well as public health and clinical epidemiology. Avoiding complex mathematics, it steps through the methods and potential problems underlying

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health data and reports, while maintaining a balance of rigour and clarity. The nuts-and-bolts of epidemiology are embedded in the wider international health perspective through recent and classical examples across

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different areas of health to engage students from a range of backgrounds. Concepts are illustrated with charts and graphs, and end-of-chapter questions test understanding (with answers provided). Online

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resources include further exercises, slides for teaching and useful weblinks.

The Encyclopedia of Epidemiology presents state-of-the-art information from the field of epidemiology in a less

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technical and accessible style and format. With more than 600 entries, no single reference provides as comprehensive a resource in as focused and appropriate manner. The entries cover every major facet of

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epidemiology, from risk ratios to case-control studies to mediating and moderating variables, and much more. Relevant topics from related fields such as biostatistics and health economics are also

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included.

Molecular Tools and Infectious Disease Epidemiology examines the opportunities and methodologic challenges in the application of modern molecular genetic and biologic techniques

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to infectious disease
epidemiology. The application of
these techniques dramatically
improves the measurement of
disease and putative risk
factors, increasing our ability to
detect and track outbreaks,

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identify risk factors and detect new infectious agents. However, integration of these techniques into epidemiologic studies also poses new challenges in the design, conduct, and analysis. This book presents the key

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points of consideration when integrating molecular biology and epidemiology; discusses how using molecular tools in epidemiologic research affects program design and conduct; considers the ethical concerns

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that arise in molecular epidemiologic studies; and provides a context for understanding and interpreting scientific literature as a foundation for subsequent practical experience in the

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laboratory and in the field. The book is recommended for graduate and advanced undergraduate students studying infectious disease epidemiology and molecular epidemiology; and for the

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epidemiologist wishing to integrate molecular techniques into his or her studies. Presents the key points of consideration when integrating molecular biology and epidemiology
Discusses how using molecular

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tools in epidemiologic research
affects program design and
conduct Considers the ethical
concerns that arise in molecular
epidemiologic studies Provides a
context for understanding and
interpreting scientific literature

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as a foundation for subsequent practical experience in the laboratory and in the field
Epidemiology workforce capacity development is a key part of strengthening Animal Health Systems. The aim of a

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field epidemiology training programme is to improve the institutional capacity to detect, prevent, control, and manage animal diseases that negatively impact animal and human health, farmers' livelihoods,

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food security, and trade. These guidelines provide an eight-step approach to develop competency based training programmes, from assessment of the needs and readiness of a country or region, to

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developing, planning, implementing, and monitoring and assessment of the impact of field epidemiology training programs. A set of core competencies developed by a participative and inclusive

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process, for frontline and intermediate levels, are provided to guide the development of curriculum and strategic plans to better achieve field epidemiology training programme sustainability.

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These guidelines should assist in addressing the veterinary services and animal health systems' needs and priorities including field epidemiology workforce capacity development.

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Applied Epidemiology
Molecular Epidemiology
Field Epidemiology
Forensic Epidemiology
Essential Epidemiology
Preparing for the Next Disease
Outbreak: Workshop Summary

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A sweeping global history that looks beyond European urban centers to show how slavery, colonialism, and war propelled the development of modern medicine. Most stories of

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medical progress come with ready-made heroes. John Snow traced the origins of London's 1854 cholera outbreak to a water pump, leading to the birth of epidemiology. Florence

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Nightingale's contributions to the care of soldiers in the Crimean War revolutionized medical hygiene, transforming hospitals from crucibles of infection to

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sanctuaries of recuperation. Yet histories of individual innovators ignore many key sources of medical knowledge, especially when it comes to the science of

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infectious disease.
Reexamining the
foundations of modern
medicine, Jim Downs shows
that the study of
infectious disease
depended crucially on the

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unrecognized contributions
of nonconsenting
subjects—conscripted
soldiers, enslaved people,
and subjects of empire.
Plantations, slave ships,
and battlefields were the

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laboratories in which physicians came to understand the spread of disease. Military doctors learned about the importance of air quality by monitoring Africans

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confined to the bottom of slave ships. Statisticians charted cholera outbreaks by surveilling Muslims in British-dominated territories returning from their annual pilgrimage.

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The field hospitals of the Crimean War and the US Civil War were carefully observed experiments in disease transmission. The scientific knowledge derived from discarding

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and exploiting human life is now the basis of our ability to protect humanity from epidemics. Boldly argued and eye-opening, *Maladies of Empire* gives a full

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account of the true price
of medical progress.
An Introduction to
Epidemiology, Fourth
Edition is intended for
introductory courses in
health-related programs at

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both the advanced undergraduate and graduate levels. It is also a valuable reference for epidemiologists working in the field, industrial hygienists, infectious

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disease nurses, and staff
epidemiologists.

This successful book, now
in its third edition,
continues to provide a
comprehensive introduction
to the role of

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epidemiology in veterinary medicine. Since the publication of the second edition there has been considerable expansion in the application of veterinary epidemiology:

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more quantitative methods are available, challenges such as the epidemic of foot-and-mouth disease in Europe in 2001 have required epidemiological investigation, and

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epidemiological analyses
have taken on further
importance with the
emergence of evidence-
based veterinary medicine.
In this edition:
Completely revised and

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expanded chapters;
Increased attention given
to the principles and
concepts of epidemiology,
surveillance, and
diagnostic-test validation
and performance; Many

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examples are drawn from both large and small animal medicine, and from the developing as well as the developed world This paperback edition includes a new section on risk

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analysis. Veterinary
Epidemiology is an
invaluable reference
source for veterinary
general practitioners,
government veterinarians,
agricultural economists

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and members of other disciplines interested in animal disease. It will also be essential reading for undergraduate and intermediate-level postgraduate students of

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epidemiology.

Preceded by Field
epidemiology / edited by
Michael B. Gregg. 3rd ed.
c2008.

Epidemiology 101
Rethinking Social

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Epidemiology

A Scientific Foundation
for Using Genetic
Information to Improve
Health and Prevent Disease
Learning from SARS
The CDC Field Epidemiology

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Manual

Vaccination Programmes

Field epidemiology involves the application of epidemiologic methods to unexpected health problems when a rapid on-site investigation is necessary for timely intervention.

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Based on decades of experience in both infectious and non-infectious diseases at the Centers for Disease Control and Prevention, this book describes in simple and practical terms the distinct approach, tasks, and actions needed for successful

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field investigations. Guidance is given on such issues as how to perform surveillance, manage and execute field investigations, collect and analyze data, perform surveys, adapt a personal computer for field use, and communicate the findings.

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Specific advice is also given on such subjects as dealing with the media; investigations in healthcare, day-care, and international settings; and the legal aspects of field studies. An entire chapter covers the proper collection, handling, and testing of

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infectious and non-infectious agents in the field. In the Second Edition, four new chapters cover many unique aspects of field studies in the workplace, after natural disasters, in preparation for and response to possible bioterrorist attacks, and by

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state and local health departments. Finally, an appendix describes how to investigate a common source food-borne epidemic. This text gives public health professionals and students a practical and complete reference to use in virtually any field

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investigation setting.

This textbook presents epidemiology in a practical manner, contextualized with discussions of theory and ethics, so that students and professionals from all academic backgrounds may develop a deep appreciation for how

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to conduct and interpret epidemiological research. Readers will develop skills to: -Search for and appraise literature critically, -Develop important research questions, -Design and implement studies to address those questions,

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- Perform and interpret fundamental statistical estimations and tests,**
- Consider the ethical implications of all stages of research, -Report findings in publications, and**
- Advocate for change in the public health setting. Epidemiology is and**

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will remain a discipline in motion, and this textbook aims at reflecting this dynamism and keeping pace with its momentum. This textbook is not only a classroom tool with high utility but also an essential reference and guide for those engaging in

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research involving human subjects. Intended as an introduction for veterinarians and other animal health professionals interested in and wishing to apply epidemiological methods in their day-to-day work, this book provides a practical guide

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for those new to the field. Its applied focus covers the principles of epidemiology in real world situations and practical implementation of disease outbreak investigation, for both emerging and endemic diseases. Techniques and methods are

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discussed, supported by case studies and practical examples to illustrate their application. The book is clearly written and accessible, providing readers with practical information and encouraging the development of problem-solving skills. It is an

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essential handbook for veterinary surgeons and students and those involved in animal health, food safety and epidemiology.

Vaccination programmes are of vital importance to public health and are present in virtually every country in

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the world. By promoting an understanding of the diverse effects of vaccination programmes, this textbook discusses how epidemiologic methods can be used to study, in real life, their impacts, benefits and risks. Written by expert

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practitioners in an accessible and concise style, this book is interspersed with practical examples which allow readers to acquire understanding through real-life data and problems. Part I provides an overview of basic concepts in

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**vaccinology, immunology,
vaccination programmes, infectious
disease transmission dynamics, the
various impacts of vaccination
programmes and their societal
context. Part II covers the main field
tools used for the epidemiological**

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evaluation of vaccination programmes: monitoring coverage and attitudes towards vaccination, surveillance of vaccine-preventable diseases and pathogens, seroepidemiological studies, methods to assess impact and outbreak

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investigation. Part III is dedicated to vaccine effectiveness and its assessment. Part IV includes an overview of the potential risks of vaccination and how to study these. Lastly, Part V deals with methods for an integrated assessment of

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benefits and risks of vaccination programmes. Suitable for professionals working in public health, epidemiology, biology and those working in health economics and vaccine development, Vaccination Programmes also serves

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as a textbook for postgraduate students in public health, epidemiology and infectious diseases. The book is aimed at all those involved in the many aspects of vaccination programmes, including public health professionals and

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epidemiologists. Its primary target audiences are master and doctoral students in infectious disease epidemiology and public health, post-doctoral participants of field epidemiology training programmes and public health professionals

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**working in the post-implementation
epidemiological evaluation of
vaccines and vaccination
programmes.**

**From Disease Transmission
Modeling to Vaccination Decision
Making**

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Theory to Practice
An Introduction for Students and
Health Professionals
Spatial Analysis in Epidemiology
Methods and Applications
Developing field epidemiology
training for veterinarians

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"Eleven fully updated chapters include entries on the links between health and discrimination, income inequality, social networks and emotion, while four all-new chapters examine the role of policies in

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shaping health, including how to translate evidence into action with multi-level interventions."

This collection of case studies—some never before published—uncover the details of actual disease outbreaks from

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within the United States and around the world. At the conclusion of each chapter, the investigator reviews the methods and processes that were employed to execute the investigation. Ideal as a

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complement to any text on infectious disease epidemiology, these case studies will bring to life the classic functions of field epidemiology and the application of epidemiological methods to unexpected health problems that

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require fast, on-site investigation and timely intervention. The cases cover investigations in infectious and non-infectious disease outbreaks, as well as environmental health related disease outbreaks.

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This unique guidebook covers all aspects of practical field epidemiologic investigation. It explains the requirements, defines terms, and illustrates many examples of how to undertake the tasks of the public

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health epidemiologist during a field investigation. Unlike other texts of its kind, it breaks down each function of field epidemiology to its constituent parts and thoroughly answers questions related to them. Topics

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include: public health surveillance; qualifying a potential outbreak; assembling and equipping a team; hypothesis generation and descriptive epidemiology; epidemiological studies;

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hypothesis-testing interviews;
data analysis; writing a report;
public health laboratory's role in
field; environmental health
components; investigating non-
infectious health events; forensic
epidemiology investigations;

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GIS; and special considerations. The text is accompanied by a complete package of instructor resources including Sample Syllabus, Instructor's Manual, TestBank, and PowerPoint slides.

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Basic principles. Epidemiologic concepts. Sampling methods. Measurement of disease frequency and production. Studying disease in animal populations. Descriptive epidemiology. Disease

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causation. Surveys and analytic observational studies. Design of field trials. Theoretical epidemiology: systems analysis and modeling. Animal health economics. Applied epidemiology. Rationale,

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strategies, and concepts of
animal disease control.

Monitoring disease and
production. Field investigations.

Epidemiology: Principles and
Practical Guidelines

Occupational Outlook Handbook

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A Toolbox

Disaster Epidemiology

Epidemiology of Electromagnetic
Fields

Field Trials of Health

Interventions

Examines the destructive impact of

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journalists, anthropologists, and scientists on the Yamomami Indians, one of the Amazon basin's oldest tribes, whose internecine warfare was triggered by repeated visits by the world's leading anthropologists and by the Atomic Energy Commission's plans to use the tribe in radiation

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studies. Reprint.

Before new interventions can be used in disease control programmes, it is essential that they are carefully evaluated in "field trials", which may be complex and expensive undertakings. Descriptions of the detailed procedures and methods

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used in trials that have been conducted in the past have generally not been published. As a consequence, those planning such trials have few guidelines available and little access to previously accumulated knowledge. In this book the practical issues of trial design and

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conduct are discussed fully and in sufficient detail for the text to be used as a "toolbox" by field investigators. The toolbox has now been extensively tested through use of the first two editions and this third edition is a comprehensive revision, incorporating the many developments that have

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taken place with respect to trials since 1996 and involving more than 30 contributors. Most of the chapters have been extensively revised and 7 new chapters have been added. As an increasing number of colleges and universities call for an epidemiologic content into liberal arts

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programs. This title is designed to meet the needs of instructors teaching and overview or introductory course of epidemiology. In an easy-to-read and understandable format, the text demonstrates applied approaches in everyday life and also to specific health outcomes. Key Features:

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Numbers case studies Text boxes and vignettes throughout Exhibits Photographs Figures Illustrations Looking for more real-life evidence? Check out Cases 1-5, 19, & 21 in Essential Case Studies in Public Health, Putting Public Health into Practice.

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Appeals to a Wide Audience Fueled by more than 30 years of intensive research and debate on the impact of electromagnetic fields (EMF) on everyday life—starting with residential exposure to magnetic fields and the development of childhood cancer in the 70s and continuing with risk of

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exposure via wireless communications in present day—Epidemiology of Electromagnetic Fields addresses ongoing public and scientific controversy surrounding the possible effects of electromagnetic fields (EMF) to human health, and provides an in-depth introduction into the

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methodology of environmental epidemiology that is appropriate for all levels, from student to practicing engineer. Exposure to EMF Focusing primarily on EMF examples, the author presents the general principles and methodological concepts in environmental epidemiology. Topics of

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importance in the first part of the book include epidemiological study designs, exposure assessment methods and implications for the study results, as well as selection bias, confounding, and other biases including reverse causality and ecological fallacy. The second part of the book covers

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environmental epidemiological methods in detail and outlines key examples such as childhood leukemia and exposure to extremely low-frequency magnetic fields, as well as examples that look at brain tumors and mobile phone use. The book also offers a detailed discussion on the

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range of EMF sources and exposures. In addition, it highlights the sophisticated assessment methods required to address exposure situations, and provides a historical perspective. The third part of the book examines how EMF exposure from the use of wireless communication

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techniques and other challenges affect risk assessment today and also details future developments. Explores environmental epidemiological methods in detail, while critically discussing epidemiological findings Provides a state-of-the-art overview of the scientific evidence of the health

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effects of EMF Considers how novelty, the steep increase of radiofrequency (RF) EMF exposure from wireless communications, and other challenges affect risk assessment today
Epidemiology of Electromagnetic Fields provides a thorough overview of the subject, and evaluates the

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scientific evidence surrounding the possible health effects of EMFs.

Cases in Field Epidemiology: A Global Perspective

Study Design and Data Analysis, Third Edition

Principles and Practices

How Scientists and Journalists

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Devastated the Amazon

Introduction to Epidemiology

Maladies of Empire

This book provides a comprehensive introduction to computational epidemiology, highlighting its major methodological paradigms

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throughout the development of the field while emphasizing the needs for a new paradigm shift in order to most effectively address the increasingly complex real-world challenges in disease control and prevention. Specifically, the book

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presents the basic concepts, related computational models, and tools that are useful for characterizing disease transmission dynamics with respect to a heterogeneous host population. In addition, it shows how to develop and apply computational methods to

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tackle the challenges involved in population-level intervention, such as prioritized vaccine allocation. A unique feature of this book is that its examination on the issues of vaccination decision-making is not confined only to the question of how

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to develop strategic policies on prioritized interventions, as it further approaches the issues from the perspective of individuals, offering a well integrated cost-benefit and social-influence account for voluntary vaccination decisions.

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One of the most important contributions of this book lies in it offers a blueprint on a novel methodological paradigm in epidemiology, namely, systems epidemiology, with detailed systems modeling principles, as well as

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practical steps and real-world examples, which can readily be applied in addressing future systems epidemiological challenges. The book is intended to serve as a reference book for researchers and practitioners in the fields of

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computer science and epidemiology. Together with the provided references on the key concepts, methods, and examples being introduced, the book can also readily be adopted as an introductory text for undergraduate and graduate

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courses in computational epidemiology as well as systems epidemiology, and as training materials for practitioners and field workers.

Based on decades of experience this work describes in simple, practical

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terms the approach, tasks and action required for a successful field investigation.

During the past twenty years there has been a dramatic increase in obesity in the United States. An estimated thirty percent of adults in

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the US are obese; in 1980, only fifteen percent were. The issue is gaining greater attention with the CDC and with the public health world in general. This book will offer practical information about the methodology of epidemiologic

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studies of obesity, suitable for graduate students and researchers in epidemiology, and public health practitioners with an interest in the issue. The book will be structured in four main sections, with the majority of chapters authored by Dr. Hu, and

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some authored by specialists in specific areas. The first section will consider issues surrounding the definition of obesity, measurement techniques, and the designs of epidemiologic studies. The second section will address the

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consequences of obesity, looking at epidemiologic studies that focus on cardio-vascular disease, diabetes, and cancer The third section will look at determinants obesity, reviewing a wide range of risk factors for obesity including diet,

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physical activity and sedentary behaviors, sleep disorders, psychosocial factors, physical environment, biochemical and genetic predictors, and intrauterine exposures. In the final section, the author will discuss the analytical

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issues and challenges for
epidemiologic studies of obesity.

The emergence of severe acute
respiratory syndrome (SARS) in late
2002 and 2003 challenged the global
public health community to confront
a novel epidemic that spread rapidly

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from its origins in southern China until it had reached more than 25 other countries within a matter of months. In addition to the number of patients infected with the SARS virus, the disease had profound economic and political

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repercussions in many of the affected regions. Recent reports of isolated new SARS cases and a fear that the disease could reemerge and spread have put public health officials on high alert for any indications of possible new

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outbreaks. This report examines the response to SARS by public health systems in individual countries, the biology of the SARS coronavirus and related coronaviruses in animals, the economic and political fallout of the SARS epidemic,

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quarantine law and other public health measures that apply to combating infectious diseases, and the role of international organizations and scientific cooperation in halting the spread of SARS. The report provides an

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illuminating survey of findings from the epidemic, along with an assessment of what might be needed in order to contain any future outbreaks of SARS or other emerging infections.

Principles and Methods

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Epidemiology with R

Computational Epidemiology

Encyclopedia of Epidemiology

Molecular Tools and Infectious

Disease Epidemiology

To date, much of the empirical work in

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social epidemiology has demonstrated the existence of health inequalities along a number of axes of social differentiation. However, this research, in isolation, will not inform effective solutions to health inequalities.

Rethinking Social Epidemiology provides an expanded vision of social

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epidemiology as a science of change, one that seeks to better address key questions related to both the causes of social inequalities in health (problem-focused research) as well as the implementation of interventions to alleviate conditions of marginalization and poverty (solution-focused

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research). This book is ideally suited for emerging and practicing social epidemiologists as well as graduate students and health professionals in related disciplines.

Accounts of field investigations, with much related personal information, written by scientists working in the field

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of epidemiology.

Disaster Epidemiology: Methods and Applications applies the core methods of epidemiological research and practice to the assessment of the short- and long-term health effects of disasters. The persistent movement of people and economic development to

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regions vulnerable to natural disasters, as well as new vulnerabilities related to environmental, technological, and terrorism incidents, means that in spite of large global efforts to reduce the impacts and costs of disasters, average annual expenditures to fund rebuilding from catastrophic losses is

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rising faster than either population or the gross world product. Improving the resilience of individuals and communities to these natural and technological disasters, climate change, and other natural and manmade stressors is one of the grand challenges of the 21st century.

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This book provides a guide to disaster epidemiology methods, supported with applications from practice. It helps researchers, public health practitioners, and governmental policy makers to better quantify the impacts of disaster on the health of individuals and communities to enhance

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resilience to future disasters. Disaster Epidemiology: Methods and Applications explains how public health surveillance, rapid assessments, and other epidemiologic studies can be conducted in the post-disaster setting to prevent injury, illness, or death; provide accurate and

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timely information for decisions makers; and improve prevention and mitigation strategies for future disasters. These methods can also be applied to the study of other types of public health emergencies, such as infectious outbreaks, emerging and re-emerging diseases, and refugee

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health. This book gives both the public health practitioner and researcher the tools they need to conduct epidemiological studies in a disaster setting and can be used as a reference or as part of a course. Provides a holistic perspective to epidemiology with an integration of

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academic and practical approaches
Showcases the use of hands-on
techniques and principles to solve real-
world problems Includes contributions
from both established and emerging
scholars in the field of disaster
epidemiology

A NEW AND ESSENTIAL

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RESOURCE FOR THE PRACTICE
OF EPIDEMIOLOGY AND PUBLIC
HEALTH The CDC Field Epidemiology
Manual is a definitive guide to
investigating acute public health
events on the ground and in real time.
Assembled and written by experts
from the Centers for Disease Control

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and Prevention as well as other leading public health agencies, it offers current and field-tested guidance for every stage of an outbreak investigation -- from identification to intervention and other core considerations along the way. Modeled after Michael Gregg's

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seminal book Field Epidemiology, this CDC manual ushers investigators through the core elements of field work, including many of the challenges inherent to outbreaks: working with multiple state and federal agencies or multinational organizations; legal considerations; and effective utilization

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of an incident-management approach.

Additional coverage includes: ·

Updated guidance for new tools in field investigations, including the latest technologies for data collection and incorporating data from geographic information systems (GIS) · Tips for investigations in unique settings,

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including healthcare and community-congregate sites · Advice for responding to different types of outbreaks, including acute enteric disease; suspected biologic or toxic agents; and outbreaks of violence, suicide, and other forms of injury For the ever-changing public health

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landscape, The CDC Field Epidemiology Manual offers a new, authoritative resource for effective outbreak response to acute and emerging threats. *** Oxford University Press will donate a portion of the proceeds from this book to the CDC Foundation, an independent nonprofit

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and the sole entity created by Congress to mobilize philanthropic and private-sector resources to support the Centers for Disease Control and Prevention's critical health protection work. To learn more about the CDC Foundation, visit www.cdcfoundation.org.

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Epidemiology for Field Veterinarians
Field Epidemiology Training Program
Towards a Science of Change
Obesity Epidemiology
A Dictionary of Epidemiology
How Colonialism, Slavery, and War
Transformed Medicine

This volume summarizes the

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state-of-the-art in the fast growing research area of modeling the influence of information-driven human behavior on the spread and control of infectious diseases. In particular, it

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features the two main and inter-related “core” topics: behavioral changes in response to global threats, for example, pandemic influenza, and the pseudo-rational opposition to

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vaccines. In order to make realistic predictions, modelers need to go beyond classical mathematical epidemiology to take these dynamic effects into account. With contributions

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from experts in this field, the book fills a void in the literature. It goes beyond classical texts, yet preserves the rationale of many of them by sticking to the underlying biology without

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compromising on scientific rigor. Epidemiologists, theoretical biologists, biophysicists, applied mathematicians, and PhD students will benefit from this book. However, it is also

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*written for Public Health
professionals interested in
understanding models, and
to advanced undergraduate
students, since it only
requires a working
knowledge of mathematical*

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epidemiology.
Applies traditional
epideiologic methods for
determining disease etiology
to the real-life applications
of public health and health
services research. This text

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contains a chapter on the development and use of systematic reviews and one on epidemiology and the law.

*The CDC Field Epidemiology
Manual Oxford University*

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Press

This practical guide is designed for students and researchers with an existing knowledge of R who wish to learn how to apply it in an epidemiological context and

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exploit its versatility. It also serves as a broader introduction to the quantitative aspects of modern practical epidemiology. The standard tools used in epidemiology

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are described and the practical use of R for these is clearly explained and laid out. R code examples, many with output, are embedded throughout the text. The entire code is also available

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on the companion website so that readers can reproduce all the results and graphs featured in the book.

Epidemiology with R is an advanced textbook suitable for senior undergraduate

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*and graduate students,
professional researchers,
and practitioners in the
fields of human and non-
human epidemiology, public
health, veterinary science,
and biostatistics.*

Access Free Field
Epidemiology

*Modeling the Interplay
Between Human Behavior
and the Spread of Infectious
Diseases*

Darkness in El Dorado

Social Epidemiology

Outbreak Investigations

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Around the World

An Introduction

Human Genome

Epidemiology

Advances in genomics are expected to play a central role in medicine and public health in the future by providing a genetic

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basis for disease prediction and prevention. The transplantation of human gene discoveries into meaningful actions to improve health and prevent disease depends on scientific information from multiple disciplines, including epidemiology. This book describes the important role that epidemiologic methods

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play in the continuum from gene discovery to the development and application of genetic tests. It proceeds systematically from the fundamentals of genome technology and gene discovery, to epidemiologic approaches to gene characterization in the population, to the evaluation of genetic tests and their use in

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health services. These methodologic approaches are then illustrated with several disease-specific case studies. The book provides a scientific foundation that will help researchers, policy makers, and practitioners integrate genomics into medical and public health practice. Dictionary making never ends because

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languages are always changing. Widely used throughout the world, this book will continue to serve as the standard English-language dictionary of epidemiology and many from related fields such as biostatistics, infectious disease control, health promotion, genetics, clinical epidemiology, health economics, and

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medical ethics. The definitions are clear and concise, but there is space for some brief essays and discussions of the provenance of important terms. Sponsored by the International Epidemiological Association, the dictionary represents the consensus of epidemiologists in many different countries. All the definitions

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were reviewed repeatedly by an international network of contributors from every major branch of epidemiology. They are authoritative without being authoritarian. The Fourth Edition contains well over 150 new entries and substantial revisions of about the same number of definitions, plus a dozen new illustrations.

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Many of the new terms relate to methods used in environmental and clinical epidemiology.

This book will serve as a primer for both laboratory and field scientists who are shaping the emerging field of molecular epidemiology. Molecular epidemiology utilizes the same paradigm as traditional

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epidemiology but uses biological markers to identify exposure, disease or susceptibility. Schulte and Perera present the epidemiologic methods pertinent to biological markers. The book is also designed to enumerate the considerations necessary for valid field research and provide a resource on the salient and

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subtle features of biological indicators. Highly praised for its broad, practical coverage, the second edition of this popular text incorporated the major statistical models and issues relevant to epidemiological studies. *Epidemiology: Study Design and Data Analysis, Third Edition* continues to focus on the

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quantitative aspects of epidemiological research. Updated and expanded, this edition

Technical guidelines and core competencies

Epidemiology

Training Disease Detectives Around the
Globe

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Epidemiology, Monitoring, Evaluation
Methods in Field Epidemiology
Veterinary Epidemiology
Providing a practical,
comprehensive and up-to-date
overview of the use of spatial
statistics in epidemiology, this book

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examines spatial analytical methods in conjunction with GIS and remotely sensed data to provide insights into the patterns and processes that underlie disease transmission.

After 9/11, forensic epidemiology

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emerged as a leading investigative tool, partnering public health officers with law enforcement like never before. Based on the authors' first-hand experience, Forensic Epidemiology brings to light the vast amounts of information

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collected by medical examiners that will be useful in advancing death investigation techniques among the forensic science, public health, and law enforcement fields. This practical resource begins with a brief overview of epidemiological

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science and the history of forensic epidemiology before examining the multiple functions of death certificates and the signature role of forensic epidemiologists in death investigations. Incorporating numerous illustrations and real-

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world examples, the book: Explains proven methods to collect, analyze, and interpret data for criminal investigations Defines the terminology, methodology, procedures, and goals of all sectors involved for more effective

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collaboration Examines deaths from natural, suicidal, accidental, homicidal, and undetermined causes Describes the various decomposition states and methods used to establish positive identity The increased frequency of criminal acts that

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involve deliberate biological and chemical agents underscores the need for collaboration between law enforcement investigators and public health professionals. As Forensic Epidemiology effectively demonstrates, when they work

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together, they can mount a powerful and successful response to threats to the American public. Dr. Steven A. Koehler was interviewed in Volume 12 of Anil Aggrawal's Internet Journal of Forensic Medicine and Toxicology.